

AMENDMENTS TO THE CLAIMS:

1. (Currently Amended) A method for enhancing arteriogenesis and/or the growth of collateral arteries and/or other arteries from preexisting arteriolar connections comprising contacting an organ or tissue having preexisting arteriolar connections with transforming growth factor beta 1 (TGF β 1) administered ~~intravenously, intraperitoneally, subcutaneously, or intramuscularly~~ intra-arterially, wherein said TGF β 1 is a polypeptide.
2. (Canceled)
3. (Previously Presented) The method of claim 1, wherein the TGF β 1 is a recombinant TGF β 1.
4. (Previously Presented) The method of claim 1, further comprising contacting the organ or tissue with a growth factor or cytokine.
5. (Canceled)
6. (Previously Presented) The method of claim 4, wherein said growth factor or cytokine is b-FGF, PDGF, TNF- α , IL-1, IL-6 or VEGF.
- 7-9. (Canceled)
10. (Previously Presented) The method of claim 1, wherein said method is applied to a subject suffering from a vascular disease or a cardiac infarct or a stroke.
11. (Previously Presented) The method of claim 10, wherein said vascular disease is arteriosclerosis and/or a hyperlipidemic condition, a coronary artery disease, cerebral occlusive disease, peripheral occlusive disease, visceral occlusive disease, renal artery disease, mesenterial arterial insufficiency or an ophthalmic or retinal occlusion.

12. (Previously Presented) The method of claim 1, wherein said method is applied to a subject during or after exposure to an agent or radiation or surgical treatment which damages or destroys arteries.

13-23. (Canceled)

24. (New) The method of claim 1, wherein the transforming growth factor beta 1 is delivered directly to said organ or tissue.